ELSEVIER

Journal of Alloys and Compounds 261 (1997) 315

Journal of ALLOYS AND COMPOUNDS

Author Index of Volume 261

Adachi, G., 304
Aldinger, F., 242
Arikawa, T., 172
Attfield, J.P., 187
Auchet, J., 295

Borisko, V.N., 259
Briggs, A., 114
Brun del Re, R., 150
Buschow, K.H.J., 42

Cardoso, C.P., 209
Chapman, J.P., 187
Chartouni, D., 273
Chaudhury, S., 105
Chen, Y.G., 217

Durand, J.M., 12

Ege, M., 231
Elding-Pontén, M., 162
Ellner, M., 250
Ettmayer, P., 192

Fauth, F., 263
Fernández, G.E., 26
Figiel, H., 42
Fischer, P., 263
Franzen, H.F., 83
Fromm, E., 254
Fujii, H., 145
Fukushima, K., 198

Gerdes, M.H., 54
Gómez Berisso, M., 26
Groboth, G., 192
Gromov, A.R., 269
Gross, K.J., 276
Gross, K., 263

Hamasaki, K., 308
Hayashi, S., 145
Hernandez, R., 308
Heuser, B.J., 225
Hisatsune, K., 308

Ibberson, R.M., 123
Ichihara, J., 132
Iguchi, M., 304
Inagaki, A., 132
Ivanov, M.I., L4

Iwadate, Y., 198
Izumi, H., 304

Jacob, I., 204
Jeitschko, W., 1, 54
Ji, R., 281
Jumas, J.C., 12

Kaji, H., 176
Kapusta, Cz., 42
Katoh, K., 32
Keil, E., 192
Kera, Y., 132
Kerr, A., 209
King, J.S., 225
Klein, R., 204
Klochko, Ye.V., 259
Kny, E., 192
Kocemba, W., 42
Kominami, H., 132
Kondo, T., 176
Koseki, S., 198
Kouznetsova, N.N., 269
Kreiner, G., 62, 83
Kronmüller, H., 231
Krop, K., 47

Lafond, A., 114
Lei, Y., 289
Lengauer, W., 192
Lenkewitz, M., 37
Li, J., 299
Liang, J., L1
Lidin, S., 162
Lipatnikov, V.N., 192
Liu, B.X., 217
Liu, W., 289
Lototsky, M.V., 259
Lunin, V.V., 269

Machida, K., 304
Majewski, P., 242
Malaman, B., 19
Martin, M., 254
Marx, R., 123
Meerschaut, A., 114
Meyer, H., 250
Minami, A., 32
Moëlo, Y., 114
Monceau, P., 114
Mukerjee, S.K., 105

Murakami, Y., 172, 176

Nader, A., 114
Naruke, H., 140
Nikitina, S.A., 15
Nunziante, P., 182
Nützenadel, C., 273

Oguro, I., 32
O'Hare, P.A.G., 204
Ohno, H., 140
Olivier-Fourcade, J., 12
Orimo, S.-i., 145
Ouladdiaf, B., 1
Ovtchenkov, E.A., 15
Ozaki, A., 132

Parent, P., 12
Percheron-Guegan, A., 12
Perrin, S., 114
Popov, V.V., 259
Przewoźnik, J., 47

Rao, G., L1
Ravot, D., 12
Reehuis, M., 1
Ressouche, E., 1
Riedi, P.C., 42
Rodewald, U.Ch., 54
Rouxel, J., 114

Sadaoka, Y., 182
Sakamoto, M., 182
Sakrana, A., 308
Salamova, A.A., 15
Salonga, J.P., 308
Sawa, H., 32
Schlapbach, L., 263, 273, 276
Schweppe, F., 254
Sereni, J.G., 26
Shimoda, Y., 176
Shiomi, A., 304
Shiozaki, R., 132
Shi, Y., L1
Shmal'ko, Yu.F., 259
Sokolov, A.Yu., 15
Song, D., 299
Spatz, P., 263, 276
Spiekermann, S., 62

Stenberg, L., 162
Stewart, G.R., 37
Stoch, G., 42
Strecker, M., 47
Su, Z., 299
Szasz, A., 209
Szillat, H., 242

Takabatake, T., 32
Takasu, Y., 172, 176
Terzieff, P., 295
Thiede, V.M.T., 54
Tomka, G.J., 42
Traversa, E., 182
Trovarelli, O., 26

Usenko, N.I., L4

Vaidya, V.N., 105
Venturini, G., 19
Venugopal, V., 105
Verbetsky, V.N., 15
Vomhof, T., 1
von Blanckenhagen, G.-F., 37

Wakabayashi, K., 198
Wang, T.M., 299
Wang, Q., 289
Watson, L.M., 209
Woolley, J.C., 150
Wortmann, G., 47
Wu, H., 289
Wu, J., 289

Yamaguchi, S., 132
Yamane, S., 198
Yamase, T., 140
Yanase, K., 172
Yang, J., L1
Yoon, S.F., 281
Yudina, S.L., 269

Zhang, X.-G., 172, 176
Zhou, W., 187
Zhuang, W., L1
Zimmer, B., 1
Żukrowski, J., 47
Züttel, A., 263, 273, 276

Elsevier Science S.A.

ELSEVIER

Journal of Alloys and Compounds 261 (1997) 317–321

Journal of ALLOYS AND COMPOUNDS

Subject Index of Volume 261

Alcohol
catalytic behavior of a series of lanthanide decatungstates [Ln(III)$W_{10}O_{36}^{9-}$; Ln: La–Yb] for H_2O_2-oxidations of alcohols and olefins: some chemical effects of the $4f^n$-electron in the lanthanide(III) ion on the catalyses 132
Alkali chloride
molar volume variation and ionic conduction in molten $SmCl_3$–NaCl, $SmCl_3$–KCl and $SmCl_3$–$CaCl_2$ systems 198
Alkaline earth borophosphates
subsolidus phase relations in the system $BaO–B_2O_3–P_2O_5$ L1
Aluminium substitution
on the solubility of aluminium in the intermetallic compound $CoGa_3$ 250
Aluminum
the crystal structure of λ-Al_4Mn 83
Aluminum alloys
investigations in the Ag-Mg and Ag-Al-Mg systems. Models for cubic approximants of icosahedral quasicrystals in the Ag-Al-Mg system 62
Amorphisation
alloy phases formed in immiscible Cu–Mo and Cu–W systems by multilayer-technique 217
Approximants
investigations in the Ag-Mg and Ag-Al-Mg systems. Models for cubic approximants of icosahedral quasicrystals in the Ag-Al-Mg system 62

Ball milling
Mg composites for hydrogen storage. The dependence of hydriding properties on composition 276
Band structure
the effect of Ti, V and Cr impurities on the transport properties of liquid aluminium 295
Bonded magnet
zinc coatings on $Sm_2Fe_{17}N_x$ powder by photoinduced chemical vapour deposition method 304
Borate
a study of the upper limit of borate substitution in $LnSr_2Cu_{3-x}B_xO_7$ materials 187

Calcium chloride
molar volume variation and ionic conduction in molten $SmCl_3$–NaCl, $SmCl_3$–KCl and $SmCl_3$–$CaCl_2$ systems 198
Calorimetry
standard molar enthalpies of formation of alloys in the pseudobinary system $Zr(Al_xCo_{1-x})_2$ at the temperature 298.15 K 204
Carbides
phase equilibria in the system Y–Ni–B–C 242
Catalytic activity
catalytic behavior of a series of lanthanide decatungstates [Ln(III)$W_{10}O_{36}^{9-}$; Ln: La–Yb] for H_2O_2-oxidations of alcohols and olefins: some chemical effects of the $4f^n$-electron in the lanthanide(III) ion on the catalyses 132
Ce compounds
low temperature specific heat of $CePt_2$-derived compounds 37
Cerium
comparative study of the ferro-antiferromagnetic transition in $Ce(Fe,Co)_2$ and $Ce(Fe,Al)_2$ 26
$CeSb_{1-x}Te_x$ solid solution
study of the $CeSb_{1-x}Te_x$ solid solution by means of Sb^{3-} L_{III} edge X-ray absorption 12
Co–Ga compounds
on the solubility of aluminium in the intermetallic compound $CoGa_3$ 250
Composites
Mg composites for hydrogen storage. The dependence of hydriding properties on composition 276
Crystal structure
subsolidus phase relations in the system $BaO–B_2O_3–P_2O_5$ L1
preparation, crystal structure and magnetic properties of the intermetallic compounds $Ln_{7+x}Re_{12}Al_{61+y}$ (Ln = Y, Gd–Er, Lu) 54
X-ray structure determination and superconductivity of a new layered misfit compound with a franckeite-like stacking, $[(Pb,Sb)S]_{2.28}NbS_2$ 114
crystal structure of neodymium(III)–diethylene glycol complex 140
synthesis and structural characterization of gadolinium–calcium ferrites $Gd_{1-x}Ca_xFeO_{3-y}$ ($0 \le x \le 2/3$) 299
Crystal structure determination
X-ray single crystal refinements of TbMnGe, $Tb_3Mn_4Ge_4$ and $TbMn_5Ge_3$ compounds 19
Cu-In system
the η-phase field of the Cu-In system 162

Deuterium
SANS measurements of deuterium-dislocation trapping in deformed single crystal Pd 225
Diborane
application of electron cyclotron resonance chemical vapour deposition in the preparation of hydrogenated SiC films: a comparison of phosphorus and boron doping 281
Diethylene glycol
crystal structure of neodymium(III)–diethylene glycol complex 140
Dilute alloys
the effect of Ti, V and Cr impurities on the transport properties of liquid aluminium 295

Elsevier Science S.A.

Dislocation
SANS measurements of deuterium-dislocation trapping in deformed single crystal Pd 225
Doping
application of electron cyclotron resonance chemical vapour deposition in the preparation of hydrogenated SiC films: a comparison of phosphorus and boron doping 281
Dy-Co alloys
mixing enthalpies in liquid Co-Dy alloys L4

Electrical conductivity
effects of vacancy ordering on structure and properties of vanadium carbide 192
Electrical resistivity
crystal growth of YbTX (T = Cu, Ag, Pt, Au; X = Sn, Sb) and the magnetic and transport properties 32
low temperature specific heat of $CePt_2$-derived compounds 37
Electrochemical discharge capacity
effects of substitution of other elements for nickel in mechanically alloyed $Mg_{50}Ni_{50}$ amorphous alloys used for nickel–metal hydride batteries 289
Electrode
preparation of a novel Pt–RuO_2/Ti electrocatalyst by use of highly porous ruthenium oxide support prepared from RuO_2–La_2O_3/ electrode 172
in situ STM investigation of metal hydride electrodes in alkaline electrolyte during electrochemical cycles 273
Electron diffraction
the η-phase field of the Cu-In system 162
$4f^n$-electrons
catalytic behavior of a series of lanthanide decatungstates [Ln(III)$W_{10}O_{36}^{9-}$; Ln: La–Yb] for H_2O_2-oxidations of alcohols and olefins: some chemical effects of the $4f^n$-electron in the lanthanide(III) ion on the catalyses 132
Electronic structure
soft X-ray measurements of the electronic states of various Mg–In phases 209
Electronic transport
the effect of Ti, V and Cr impurities on the transport properties of liquid aluminium 295
Enthalpy of formation
standard molar enthalpies of formation of alloys in the pseudobinary system $Zr(Al_xCo_{1-x})_2$ at the temperature 298.15 K 204

Franckeite
X-ray structure determination and superconductivity of a new layered misfit compound with a franckeite-like stacking, $[(Pb,Sb)S]_{2.28}NbS_2$ 114

Gadolinium–calcium ferrites
synthesis and structural characterization of gadolinium–calcium ferrites $Gd_{1-x}Ca_xFeO_{3-y}$ $(0 \leq x \leq 2/3)$ 299
Gas discharge
sorption and electrotransfer characteristics of hydrogen-gettering material in contact with a hydrogen plasma 259
^{155}Gd-Mössbauer spectroscopy
X-ray diffraction and ^{155}Gd-Mössbauer effect study of $GdMn_2H_x$ $(0 \leq x \leq 4.3)$ 47
Gold alloy
phase transformation in a dental gold alloy for soldering 308

Hard magnetic material
zinc coatings on $Sm_2Fe_{17}N_x$ powder by photoinduced chemical vapour deposition method 304
Heat of mixing
mixing enthalpies in liquid Co-Dy alloys L4
Heteronuclear cyano complex
preparation of Perovskite-type $LaFe_xCo_{1-x}O_3$ by thermal decomposition of heteronuclear complex, $La[Fe_xCo_{1-x}(CN)_6] \cdot nH_2O$ for electroceramic applications 182
High resolution electron microscopy
a study of the upper limit of borate substitution in $LnSr_2Cu_{3-x}B_xO_7$ materials 187
Homogeneity range
on the solubility of aluminium in the intermetallic compound $CoGa_3$ 250
H_2O_2-oxidation
catalytic behavior of a series of lanthanide decatungstates [Ln(III)$W_{10}O_{36}^{9-}$; Ln: La–Yb] for H_2O_2-oxidations of alcohols and olefins: some chemical effects of the $4f^n$-electron in the lanthanide(III) ion on the catalyses 132
Hybridization
comparative study of the ferro-antiferromagnetic transition in $Ce(Fe,Co)_2$ and $Ce(Fe,Al)_2$ 26
Hydrogen
sorption and electrotransfer characteristics of hydrogen-gettering material in contact with a hydrogen plasma 259
Hydrogen absorption
Mg composites for hydrogen storage. The dependence of hydriding properties on composition 276
Hydrogen activation
sorption and electrotransfer characteristics of hydrogen-gettering material in contact with a hydrogen plasma 259
Hydrogenation
application of electron cyclotron resonance chemical vapour deposition in the preparation of hydrogenated SiC films: a comparison of phosphorus and boron doping 281
Hydrogen getters
sorption and electrotransfer characteristics of hydrogen-gettering material in contact with a hydrogen plasma 259
Hydrogen relaxation
mechanical relaxation processes of hydrogen in dilute palladium–rare earth alloys 231
Hyperfine fields-magnetic
^{145}Nd NMR study of $Nd_xY_{2-x}Co_{17}$ and $Nd_xY_{2-x}Co_{14}B$ 42
Hyperfine interactions
X-ray diffraction and ^{155}Gd-Mössbauer effect study of $GdMn_2H_x$ $(0 \leq x \leq 4.3)$ 47

In situ STM
in situ STM investigation of metal hydride electrodes in alkaline electrolyte during electrochemical cycles 273
Intermetallic compounds
^{145}Nd NMR study of $Nd_xY_{2-x}Co_{17}$ and $Nd_xY_{2-x}Co_{14}B$ 42
on the solubility of aluminium in the intermetallic compound $CoGa_3$ 250
Intermetallics
the η-phase field of the Cu-In system 162
phase equilibria in the system Y–Ni–B–C 242
Internal friction
mechanical relaxation processes of hydrogen in dilute palladium–rare earth alloys 231

Interstitial
effect of interstitial hydrogen and nitrogen on the magnetocrystalline anisotropy of R_2Fe_{17} (R = Tb,Dy,Ho,Er) 15
Ion beam mixing
alloy phases formed in immiscible Cu–Mo and Cu–W systems by multilayer-technique 217
I Sb-Mössbauer spectroscopy
study of the $CeSb_{1-x}Te_x$ solid solution by means of Sb^{3-} L_{III} edge X-ray absorption 12

$L1_{0\text{-}S}$
phase transformation in a dental gold alloy for soldering 308
$LaCoO_3$
preparation of Perovskite-type $LaFe_xCo_{1-x}O_3$ by thermal decomposition of heteronuclear complex, $La[Fe_xCo_{1-x}(CN)_6] \cdot nH_2O$ for electroceramic applications 182
$LaFe_XCo_{1\text{-}X}O_3$
preparation of Perovskite-type $LaFe_xCo_{1-x}O_3$ by thermal decomposition of heteronuclear complex, $La[Fe_xCo_{1-x}(CN)_6] \cdot nH_2O$ for electroceramic applications 182
$LaFeO_3$
preparation of Perovskite-type $LaFe_xCo_{1-x}O_3$ by thermal decomposition of heteronuclear complex, $La[Fe_xCo_{1-x}(CN)_6] \cdot nH_2O$ for electroceramic applications 182
Lanthanide decatungstate
catalytic behavior of a series of lanthanide decatungstates [Ln(III)$W_{10}O_{36}^{9-}$; Ln: La–Yb] for H_2O_2-oxidations of alcohols and olefins: some chemical effects of the $4f^n$-electron in the lanthanide(III) ion on the catalyses 132
Lanthanide ion
catalytic behavior of a series of lanthanide decatungstates [Ln(III)$W_{10}O_{36}^{9-}$; Ln: La–Yb] for H_2O_2-oxidations of alcohols and olefins: some chemical effects of the $4f^n$-electron in the lanthanide(III) ion on the catalyses 132
Lanthanides
crystal structure of neodymium(III)–diethylene glycol complex 140
Lanthanum
preparation of a novel Pt–RuO_2/Ti electrocatalyst by use of highly porous ruthenium oxide support prepared from RuO_2–La_2O_3/ electrode 172
Lanthanum chloride
porous ruthenium oxide electrode prepared by adding lanthanum chloride to the coating solution 176
Laves phase(s)
X-ray diffraction and ^{155}Gd-Mössbauer effect study of $GdMn_2H_x$ ($0 \leq x \leq 4.3$) 47
$CeMnAlH_x$, a new metal hydride 263
Liquid alloys
mixing enthalpies in liquid Co-Dy alloys L4
the effect of Ti, V and Cr impurities on the transport properties of liquid aluminium 295
Long period superstructure
phase transformation in a dental gold alloy for soldering 308

Magnesium alloys
investigations in the Ag-Mg and Ag-Al-Mg systems. Models for cubic approximants of icosahedral quasicrystals in the Ag-Al-Mg system 62
Magnesium nickel hydride
local structures and hydrogen dynamics in amorphous and nanostructured Mg-Ni-H systems as studied by ^{1}H and ^{2}H nuclear magnetic resonance 145
Magnetic properties
magnetization and neutron diffraction studies of the magnetic order in the compounds $Pr_2Co_{12}P_7$, $Nd_2Co_{12}P_7$, $Ho_2Co_{12}P_7$ and $Lu_2Co_{12}P_7$ 1
X-ray single crystal refinements of TbMnGe, $Tb_3Mn_4Ge_4$ and $TbMn_5Ge_3$ compounds 19
preparation, crystal structure and magnetic properties of the intermetallic compounds $Ln_{7+x}Re_{12}Al_{61+y}$ (Ln = Y, Gd–Er, Lu) 54
Magnetic structure
magnetization and neutron diffraction studies of the magnetic order in the compounds $Pr_2Co_{12}P_7$, $Nd_2Co_{12}P_7$, $Ho_2Co_{12}P_7$ and $Lu_2Co_{12}P_7$ 1
Magnetic susceptibility
crystal growth of YbTX (T = Cu, Ag, Pt, Au; X = Sn, Sb) and the magnetic and transport properties 32
low temperature specific heat of $CePt_2$-derived compounds 37
Magnetization
comparative study of the ferro-antiferromagnetic transition in $Ce(Fe,Co)_2$ and $Ce(Fe,Al)_2$ 26
crystal growth of YbTX (T = Cu, Ag, Pt, Au; X = Sn, Sb) and the magnetic and transport properties 32
Magnetocrystalline anisotropy
effect of interstitial hydrogen and nitrogen on the magnetocrystalline anisotropy of R_2Fe_{17} (R = Tb,Dy,Ho,Er) 15
^{145}Nd NMR study of $Nd_xY_{2-x}Co_{17}$ and $Nd_xY_{2-x}Co_{14}B$ 42
Manganese
the crystal structure of λ-Al_4Mn 83
Mechanical alloying
effects of substitution of other elements for nickel in mechanically alloyed $Mg_{50}Ni_{50}$ amorphous alloys used for nickel–metal hydride batteries 289
Melt
molar volume variation and ionic conduction in molten $SmCl_3$–NaCl, $SmCl_3$–KCl and $SmCl_3$–$CaCl_2$ systems 198
Metal alloys
the crystal structure of λ-Al_4Mn 83
Metal hydride(s)
$CeMnAlH_x$, a new metal hydride 263
sorption and electrotransfer characteristics of hydrogen-gettering material in contact with a hydrogen plasma 263
in situ STM investigation of metal hydride electrodes in alkaline electrolyte during electrochemical cycles 273
Mg composites for hydrogen storage. The dependence of hydriding properties on composition 276
Metal hydride electrode
effects of substitution of other elements for nickel in mechanically alloyed $Mg_{50}Ni_{50}$ amorphous alloys used for nickel–metal hydride batteries 289
Metastable alloys
soft X-ray measurements of the electronic states of various Mg–In phases 209
Mg-In alloys
soft X-ray measurements of the electronic states of various Mg–In phases 209
Mg–Ni alloys
effects of substitution of other elements for nickel in mechanically alloyed $Mg_{50}Ni_{50}$ amorphous alloys used for nickel–metal hydride batteries 289

Microhardness
effects of vacancy ordering on structure and properties of vanadium carbide 192
Misfit-compound
X-ray structure determination and superconductivity of a new layered misfit compound with a franckeite-like stacking, $[(Pb,Sb)S]_{2.28}NbS_2$ 114
Molar conductivity
molar volume variation and ionic conduction in molten $SmCl_3$–NaCl, $SmCl_3$–KCl and $SmCl_3$–$CaCl_2$ systems 198
Multilayered films
alloy phases formed in immiscible Cu–Mo and Cu–W systems by multilayer-technique 217

Neodymium
crystal structure of neodymium(III)–diethylene glycol complex 140
Neutron scattering
$CeMnAlH_x$, a new metal hydride 263
NiAs-Ni_2In-type phase
the η-phase field of the Cu-In system 162
NMR-spin echo
^{145}Nd NMR study of $Nd_xY_{2-x}Co_{17}$ and $Nd_xY_{2-x}Co_{14}B$ 42

Olefin
catalytic behavior of a series of lanthanide decatungstates $[Ln(III)W_{10}O_{36}^{9-}$; Ln: La–Yb] for H_2O_2-oxidations of alcohols and olefins: some chemical effects of the $4f^n$-electron in the lanthanide(III) ion on the catalyses 132
Oxydation
the investigation of titanium hydride oxidation process 269

Palladium
SANS measurements of deuterium-dislocation trapping in deformed single crystal Pd 225
Palladium–rare earth alloys
mechanical relaxation processes of hydrogen in dilute palladium–rare earth alloys 231
Perovskite-type compounds
synthesis and structural characterization of gadolinium–calcium ferrites $Gd_{1-x}Ca_xFeO_{3-y}$ $(0 \leq x \leq 2/3)$ 299
Perovskite-type oxide
preparation of Perovskite-type $LaFe_xCo_{1-x}O_3$ by thermal decomposition of heteronuclear complex, $La[Fe_xCo_{1-x}(CN)_6] \cdot nH_2O$ for electroceramic applications 182
Phase equilibria
phase equilibria in the system Y–Ni–B–C 242
η-phase field
the η-phase field of the Cu-In system 162
Phase transition
effects of vacancy ordering on structure and properties of vanadium carbide 192
Phosphine
application of electron cyclotron resonance chemical vapour deposition in the preparation of hydrogenated SiC films: a comparison of phosphorus and boron doping 281
Photoconduction
application of electron cyclotron resonance chemical vapour deposition in the preparation of hydrogenated SiC films: a comparison of phosphorus and boron doping 281
Photoinduced chemical vapour deposition
zinc coatings on $Sm_2Fe_{17}N_x$ powder by photoinduced chemical vapour deposition method 304
Physicochemical parameters
catalytic behavior of a series of lanthanide decatungstates $[Ln(III)W_{10}O_{36}^{9-}$; Ln: La–Yb] for H_2O_2-oxidations of alcohols and olefins: some chemical effects of the $4f^n$-electron in the lanthanide(III) ion on the catalyses 132
Platinum
preparation of a novel Pt–RuO_2/Ti electrocatalyst by use of highly porous ruthenium oxide support prepared from RuO_2–La_2O_3/ electrode 172
Pore initiator
porous ruthenium oxide electrode prepared by adding lanthanum chloride to the coating solution 176
Porous Material
preparation of a novel Pt–RuO_2/Ti electrocatalyst by use of highly porous ruthenium oxide support prepared from RuO_2–La_2O_3/ electrode 172
porous ruthenium oxide electrode prepared by adding lanthanum chloride to the coating solution 176
Powder pattern
the η-phase field of the Cu-In system 162
Powder X-ray diffraction
a study of the upper limit of borate substitution in $LnSr_2Cu_{3-x}B_xO_7$ materials 187
Pressure-concentration-isotherms
$CeMnAlH_x$, a new metal hydride 263

Quadrupole interactions
^{145}Nd NMR study of $Nd_xY_{2-x}Co_{17}$ and $Nd_xY_{2-x}Co_{14}B$ 42
Quasicrystals
investigations in the Ag-Mg and Ag-Al-Mg systems. Models for cubic approximants of icosahedral quasicrystals in the Ag-Al-Mg system 62
the crystal structure of λ-Al_4Mn 83

Rare earth cobalt phosphides
magnetization and neutron diffraction studies of the magnetic order in the compounds $Pr_2Co_{12}P_7$, $Nd_2Co_{12}P_7$, $Ho_2Co_{12}P_7$ and $Lu_2Co_{12}P_7$ 1
Rare earth compounds
effect of interstitial hydrogen and nitrogen on the magnetocrystalline anisotropy of R_2Fe_{17} (R = Tb,Dy,Ho,Er) 15
Rare earth intermetallic compounds
zinc coatings on $Sm_2Fe_{17}N_x$ powder by photoinduced chemical vapour deposition method 304
Rare earth iron phosphides
magnetization and neutron diffraction studies of the magnetic order in the compounds $Pr_2Co_{12}P_7$, $Nd_2Co_{12}P_7$, $Ho_2Co_{12}P_7$ and $Lu_2Co_{12}P_7$ 1
Rare earth–transition metal hydrides
X-ray diffraction and ^{155}Gd-Mössbauer effect study of $GdMn_2H_x$ $(0 \leq x \leq 4.3)$ 47
Reactive mechanical grinding
local structures and hydrogen dynamics in amorphous and nanostructured Mg-Ni-H systems as studied by ^1H and ^2H nuclear magnetic resonance 145

Ruthenium Oxide
preparation of a novel Pt–RuO_2/Ti electrocatalyst by use of highly porous ruthenium oxide support prepared from RuO_2–La_2O_3/ electrode 172
porous ruthenium oxide electrode prepared by adding lanthanum chloride to the coating solution 176

Samarium chloride
molar volume variation and ionic conduction in molten $SmCl_3$–NaCl, $SmCl_3$–KCl and $SmCl_3$–$CaCl_2$ systems 198
SANS
SANS measurements of deuterium-dislocation trapping in deformed single crystal Pd 225
Selected area electron diffraction
the η-phase field of the Cu-In system 162
Silicon carbide films
application of electron cyclotron resonance chemical vapour deposition in the preparation of hydrogenated SiC films: a comparison of phosphorus and boron doping 281
Silver alloys
investigations in the Ag-Mg and Ag-Al-Mg systems. Models for cubic approximants of icosahedral quasicrystals in the Ag-Al-Mg system 62
Soft X-ray emission spectroscopy
soft X-ray measurements of the electronic states of various Mg–In phases 209
Soldering alloy
phase transformation in a dental gold alloy for soldering 308
Solid-state NMR
local structures and hydrogen dynamics in amorphous and nanostructured Mg-Ni-H systems as studied by ^1H and ^2H nuclear magnetic resonance 145
Specific heat
low temperature specific heat of $CePt_2$-derived compounds 37
effects of vacancy ordering on structure and properties of vanadium carbide 192
Stability range
phase equilibria in the system Y–Ni–B–C 242
Sulfide
X-ray structure determination and superconductivity of a new layered misfit compound with a franckeite-like stacking, $[(Pb,Sb)S]_{2.28}NbS_2$ 114
Superconductivity
X-ray structure determination and superconductivity of a new layered misfit compound with a franckeite-like stacking, $[(Pb,Sb)S]_{2.28}NbS_2$ 114
phase equilibria in the system Y–Ni–B–C 242
Superstructure
the η-phase field of the Cu-In system 162
Suppression of magnetic order
low temperature specific heat of $CePt_2$-derived compounds 37

Terbium manganese germanides
X-ray single crystal refinements of TbMnGe, $Tb_3Mn_4Ge_4$ and $TbMn_5Ge_3$ compounds 19
Ternary oxide system
subsolidus phase relations in the system BaO–B_2O_3–P_2O_5 L1
Ternary rare earth compounds
X-ray single crystal refinements of TbMnGe, $Tb_3Mn_4Ge_4$ and $TbMn_5Ge_3$ compounds 19
Ternary rare earth rhenium aluminides
preparation, crystal structure and magnetic properties of the intermetallic compounds $Ln_{7+x}Re_{12}Al_{61+y}$ (Ln = Y, Gd–Er, Lu) 54
Thermal decomposition
preparation of Perovskite-type $LaFe_xCo_{1-x}O_3$ by thermal decomposition of heteronuclear complex, $La[Fe_xCo_{1-x}(CN)_6]\cdot nH_2O$ for electroceramic applications 182
Thermodynamics
standard molar enthalpies of formation of alloys in the pseudobinary system $Zr(Al_xCo_{1-x})_2$ at the temperature 298.15 K 204
Titanium hydride
the investigation of titanium hydride oxidation process 269
Trapping
SANS measurements of deuterium-dislocation trapping in deformed single crystal Pd 225

Vanadium carbide
effects of vacancy ordering on structure and properties of vanadium carbide 192

X-ray absorption
study of the $CeSb_{1-x}Te_x$ solid solution by means of Sb^{3-} L_{III} edge X-ray absorption 12
X-ray diffraction
X-ray diffraction and ^{155}Gd-Mössbauer effect study of $GdMn_2H_x$ ($0 \le x \le 4.3$) 47
$CeMnAlH_x$, a new metal hydride 263
synthesis and structural characterization of gadolinium–calcium ferrites $Gd_{1-x}Ca_xFeO_{3-y}$ ($0 \le x \le 2/3$) 299

Yb ternary compound
crystal growth of YbTX (T = Cu, Ag, Pt, Au; X = Sn, Sb) and the magnetic and transport properties 32

Zinc coating
zinc coatings on $Sm_2Fe_{17}N_x$ powder by photoinduced chemical vapour deposition method 304
(Zirconium + aluminum + cobalt) alloys
standard molar enthalpies of formation of alloys in the pseudobinary system $Zr(Al_xCo_{1-x})_2$ at the temperature 298.15 K 204